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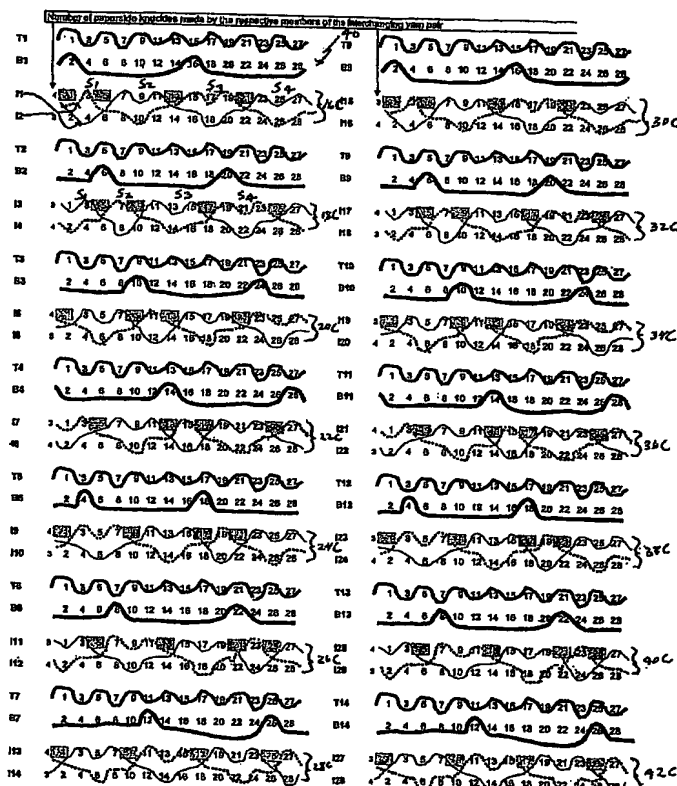
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(54) Title: FABRICS WITH MULTI-SEGMENT, PAIRED, INTERCHANGING YARNS



(57) Abstract: A composite forming fabric comprising a paper side layer having a paper side surface, a machine side layer having a bottom wear side surface, and a plurality of pairs of first and second intrinsic, interchanging weft binder yarns for binding together the paper side layer and the machine side layer. At least of said plurality of pairs of first and second intrinsic, interchanging weft binder yarns have at least four segments in the paper side layer within each repeat of the weave pattern in the fabric, and these segments provide an unbroken weft path in the paper side surface. Each of the first and second intrinsic, interchanging weft binder yarns of each binder pair having at least four segments in the paper side layer within each repeat of the weave pattern binds to at least one warp yarn in the machine side layer vertically underlying one of the segments.

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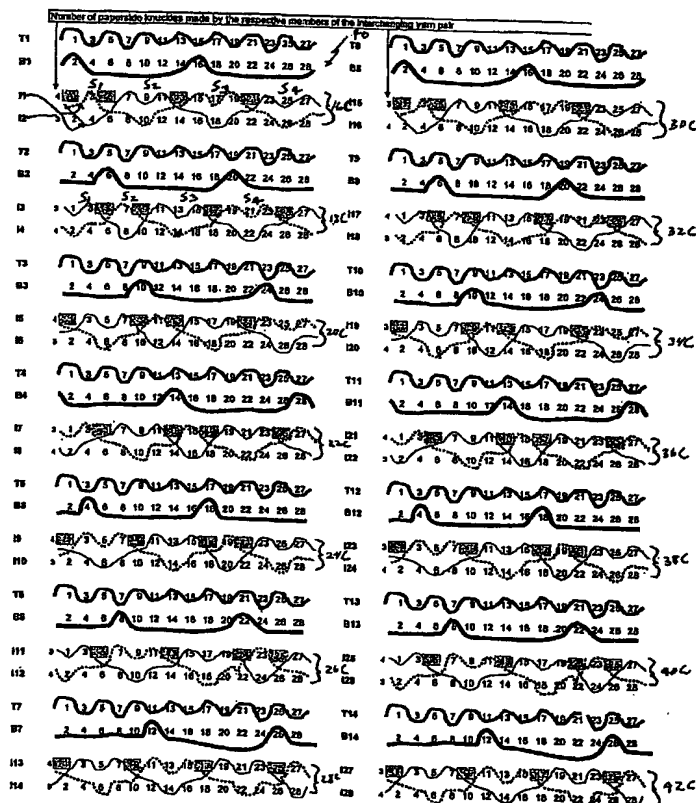
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(54) Title: **FABRICS WITH MULTI-SEGMENT, PAIRED, INTERCHANGING YARNS**



(57) Abstract: A composite forming fabric (10) comprising a paper side layer (12) having a paper side surface, a machine side layer (14) having a bottom wear side surface, and a plurality of pairs of first and second intrinsic, interchanging weft binder yarns (16,18,20,...34) for binding together the paper side layer (12) and the machine side layer (14). At least of said plurality of pairs of first and second intrinsic, interchanging weft binder yarns have at least four segments (S1-S4) in the paper side layer (12) within each repeat of the weave pattern in the fabric, and these segments provide an unbroken weft path in the paper side surface. Each of the first and second intrinsic, interchanging weft binder yarns (16,18,20,...34) of each binder pair having at least four segments (S1-S4) in the paper side layer (12) within each repeat of the weave pattern binds to at least one warp yarn (2-20) in the machine side layer (14) vertically underlying one of the segments (S1-S4).

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